

SC420

*Sound level meter
and spectrum analyser*



CESVA

NOISE
MEASURING
INSTRUMENTS
SINCE 1969

ON & PLAY

POWERFUL AND ERGONOMIC MODULAR PLATFORM MULTIPLE APPLICATIONS

The SC420 is an instrument that stands out for its **power, versatility, ergonomics** and high performance as a class 1 integrating sound level meter in accordance with IEC 61672, ANSI S1.4 and ANSI S1.43.

Thanks to its **modular platform**, the SC420 can be expanded with advanced measurement options such as one-third octave band spectrum analysis, FFT analysis and reverberation time measurement.

The SC420 provides audio recording with prerecording and voice comments and features external memory through microSD cards, automatic start/stop of measurements and audio recordings based on timers and thresholds. It has also been designed with ON & PLAY technology in order to offer a pleasant, user-friendly experience from the start.

ON & PLAY

Intuitive design which allows the user to focus on the measurement and not on operating the equipment even after long periods of inactivity. Just press the ON button and in just a few seconds the SC420 is ready to measure with no need for adjusting the settings beforehand.



Evaluation of environmental noise produced by industrial, port and storage operations



Environmental impact and monitoring of noise generated by road, rail and airport infrastructures



Characterisation of noise emitted by wind turbines on wind farms



Monitoring noise from roadworks



Noise immission in homes due to traffic, activities and the neighbourhood



Measurement of reverberation time in classrooms, restaurants, auditoriums, etc.



Measurements of acoustic insulation for airborne noise, impact noise and in façades



Statement of noise produced by machines and indication of sound power level



Noise generated by HVAC systems



Measurement of the noise exposure level of workers in accordance with Directive 2003/10/EC

FEATURES FROM ITS INITIAL SETTING AS A CLASS 1 INTEGRATING SOUND LEVEL METER



External
microSD
MEMORY
CARDS



AUDIO
recording
(listening quality)
with prerecording
and voice
comments

- External microSD MEMORY CARDS
- AUDIO recording (listening quality)
- AUTOMATIC MEASUREMENT by time, DEN level and external input:
 - Automatic start/stop of recording
 - Automatic audio recording with prerecording
- Automatic display ZOOM
- File system optimised for Big Data
- MARKS: manual (keyboard) and external input
- BACKERASE
- Built-in USB and BLUETOOTH® connectivity
- Sensitivity and date and time change history
- Ready for environmental monitoring:
 - Auto ON with automatic measurement and logging start
 - Downloads data while it measures
- Sound field corrector selection: free or diffuse



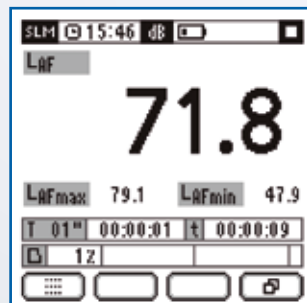
INCLUDED: **CESVA Memory download (CMD):**
Computer communication software for downloading and managing records stored in the microSD card

CAN BE EXPANDED WITH ADVANCED MEASUREMENT MODES

Sound level meter measurement mode included in all settings

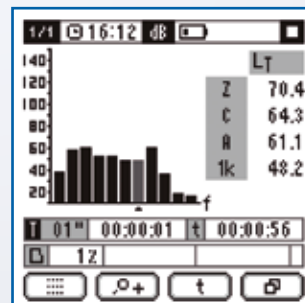
* Optional modules

See technical specifications at www.cesva.com



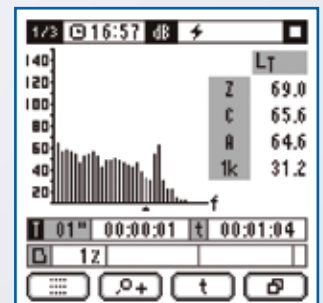
Sound Level Meter Mode

All functions measured simultaneously with the 3 frequency weightings (A, C and Z)



OF420 Octave bands *

Analysis by octave filters from 16 Hz to 16 kHz plus overall functions and NC and NR curves



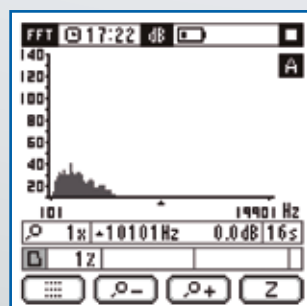
TF420 1/3 octaves *

Analysis by 1/3 octave band filters from 10 Hz to 20 kHz plus overall functions



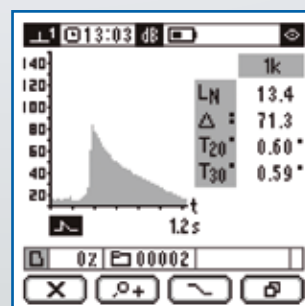
DS420 Occupational Noise *

HML and octave evaluation of hearing protectors



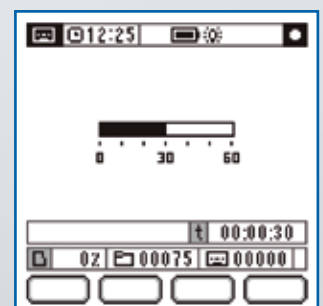
FF420 FFT Analysis *

FFT analysis of 10,000 lines from 0 to 20,000 Hz (2 Hz/line)



RT420 Reverberation Time *

RT by 1/1 and 1/3 bands Interrupted noise method and integrated impulse response method



HI420 Audio quality analysis *

WAV files (without compression), 24 bits at 48 kHz and constant gain for later analysis

Proximity, speed, efficiency



INFORMATION AND ADVICE

We recommend the best product to suit your needs. Implementation of solutions and equipment.



WORKSHOPS AND TECHNICAL CONFERENCES

Training seminars throughout the country. Technical conferences and group training: professional colleges, local police, etc.



CUSTOMER SERVICE

Enquiries about the use of our instruments and software are attended in less than 24 hours by our team of engineers.



WORLDWIDE DISTRIBUTION

Fast and efficient distribution network. Our products are currently present in more than 40 countries throughout the world.



QUALITY AFTER SALES SERVICE

- Minimum turnaround time (no need to wait).
- Competitive prices.
- Own laboratory for testing and calibration.

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